

DEC 07 2005

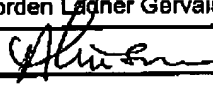
PTO/SB/21 (09-04)

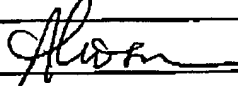
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| TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small> | Application Number | 10/760,379 | |
| | Filing Date | January 21, 2004 | |
| | First Named Inventor | Sean G. GIBB et al. | |
| | Art Unit | 2124 | |
| | Examiner Name | | |
| Total Number of Pages in This Submission | 114 | Attorney Docket Number | PAT 943-2 |

| ENCLOSURES (Check all that apply) | | |
|--|--|---|
| <input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): - Form PTO 1449 - International Search Report - References (5) |
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| Firm Name | Borden Ladner Gervais LLP | | |
| Signature |  | | |
| Printed name | Anne Kinsman | | |
| Date | December 7, 2005 | Reg. No. | 45,291 |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: GIBB, Sean, G.; GRAUMANN, Peter, J., W.
Serial No.: 10/760,379
Filed: January 21, 2004
Title: RECODED RADIX-2 PIPELINED FFT PROCESSOR
Group: 2124
Examiner:
Attorney Ref.: PAT 943-2 US

December 7, 2005

Commissioner for Patents
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Dear Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, the applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449, attached hereto.

II. COPIES**(check at least one box)**

a. No U.S. patent or published application copies are enclosed.

Where applicable, submitted herewith is a legible copy of (i) each Foreign patent or application; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.



b. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are

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needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE**(check at least one box)**

- ☒ a. DOCUMENTS IN THE ENGLISH LANGUAGE
The attached patents, publications, or other information in the English language do not require a statement of relevancy.
- ☐ b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE
A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:
- ☒ c. ENGLISH LANGUAGE SEARCH REPORT
An English language version of the search report or action that indicates the degree of relevance found by the foreign Patent Office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A) (3).
- ☐ d. OTHER
The following additional information is provided for the Examiner's consideration.

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97 (b):**(check one box)**

- ☐ a. Within three months of the filing date of a national application (37 C.F.R. § 1.97 (b) (1)). No fee or statement is required. (This section is not to be used with RCE's AND CPA's.)
- ☐ b. Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97 (b) (2)). No fee or statement is required.
- ☐ c. Concurrently with the filing of a Continued Prosecution Application under 37 C.F.R. § 1.53 (d) or concurrently with the filing of a Request for Continued Examination under § 1.114 (37 C.F.R. § 1.97 (b) (4)). No fee or statement is required.
- ☐ d. Before the mailing date of a first Action on the merits (37 C.F.R. § 1.97 (b) (3)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97 (e) below, or, if no statement has been made, charge

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our deposit account in the amount of **\$180.00** as required by 37 C.F.R. § 1.17 (p).

- ☐ e. Before the mailing date of a first Action on the merits (37 C.F.R. § 1.97 (b) (4)). No fee or statement is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97 (e) below, or, if no statement has been made, charge our deposit account in the amount of **\$180.00** as required by 37 C.F.R. § 1.17 (p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97 (c):
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- ☐ a. No statement; therefore, a fee in the amount of **\$180.00** as required by 37 C.F.R. § 1.17 (p).
- ☐ b. See the statement below. No fee is required.

VI. STATEMENT UNDER 37 C.F.R. § 1.97 (e)
(check only one box)

The undersigned hereby states that

- ☒ a. Each item of information contained in the IDS was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more thirty (30) days prior to the filing of this IDS.
- ☐ b. No item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of IDS was known to any individual designated in 37 C.F.R. § 1.56 (c) more than three months prior to the filing of the IDS.
- ☐ c. Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart from a foreign Patent Office in a counterpart foreign application and, to the best

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Page 3 of 4
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of my knowledge after making reasonable inquiry, was known to any individual designated in the 37 C.F.R. § 1.56 (c) more than three months prior to the filing of this statement.

VII. PAYMENT OF FEES

(check one box)

☐ Please charge Deposit Account No. 501593 in the amount required by 37 C.F.R. § 1.17 (p) for the above-indicated fee. A duplicate copy of this paper is attached.


☒ No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 501593.

If the preceding amount is incorrect, any deficiency or overpayment should also be charged or credited to Deposit Account No. 501593, in the name of Borden Ladner Gervais LLP.

Respectfully submitted,

Sean G. GIBB et al.



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ALK/JLD/jld

Encls.

☒ PTO-1449

☒ References (5)

☒ Foreign Search Report

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|---|---|----|---|-----------------------|---------------------|
| Form PTO-1449 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | | | | Complete if Known | |
| | | | | Application No.: | 10/760,379 |
| | | | | Filing Date: | January 21, 2004 |
| | | | | First Named Inventor: | Sean G. GIBB et al. |
| | | | | Group Art Unit: | 2124 |
| | | | | Examiner Name: | |
| Sheet | 1 | of | 1 | Attorney Docket No.: | PAT 943-2 |

FOREIGN PATENT DOCUMENTS

| Examiner Initials | Cite No. | Patent Document No. | Date of Publication mm-dd-yyyy | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ✓ | Check if English Translation is attached |
|-------------------|----------|---------------------|--------------------------------|---|---|--------|--|
| | | WO 99/38089 A | 07-29-1999 | Telefonaktie-bolaget LM Ericsson | | | |
| | | WO 97/19412 A | 05-29-1997 | Teracom Svensk Rundradio | | | |

OTHER DOCUMENTS

| | |
|--|---|
| | Shousheng et al., "Designing pipeline FFT processor for OFDM (de)modulation", <i>SIGNALS, SYSTEMS, AND ELECTRONICS</i> , 1998. ISSSE 98. 1998 URSI INTERNATIONAL SYMPOSIUM ON PISA, Italy, September 29 - October 2, 1998, New York, NY, USA, IEEE, US, September 29, 1998 (1998-09-29), pages 257-262, XP010316813, ISBN: 0-7803-4900-8, section III.B, figure 6 |
| | Lihong et al., "A new VLSI-oriented FFT algorithm and implementation", ASIC Conference 1998, Proceedings. Eleventh Annual IEEE International, Rochester, NY, USA, IEEE, US, September 13, 1998, pages 337 - 341, XP010309677, ISBN: 0-7803-4980-6, section II.A; figure 2, section II.C; figures 7(b), 8, 9 |
| | Chu et al., "Inside the FFT Black Box", 2000, CRC Press, USA, XP002350341, section 12.1 |

| | |
|---|------------------|
| Examiner Signature: | Date Considered: |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant. | |